

PATENT APPLICATION

In the claims:

Please substitute the following full listing of claims for the claims as originally filed or most recently amended.

1-19. (Canceled)

20. (Previously Presented) A method for adding a remote apparatus to a wavelength division multiplexing transmission system in which a plurality of remote apparatuses are connected to a station apparatus and communication is performed among the remote apparatuses and the station apparatus using a given plurality of wavelengths, the method comprising:

transmitting from the station apparatus one or more wavelengths of the given plurality of wavelengths to the plurality of remote apparatuses and the remote apparatus to be added to said wavelength division multiplexing transmission system;

separating a wavelength from the given plurality of wavelengths, said step of separating being performed by a wavelength separating device at the remote apparatus to be added according to a wavelength control signal;

outputting a reception status signal indicating whether or not the separated wavelength is received at the remote apparatus to be added; and

controlling generation of a wavelength control signal used in said separating step based on said reception status signal output in said outputting step, said controlling step;

determining whether a signal corresponding to the separated wavelength is being received, and, if not, setting the separated wavelength as the wavelength to be used in the remote apparatus to be added,

but if it is determined that a signal corresponding to the separated wavelength is being

PATENT APPLICATION

received, then

generating a new wavelength control signal to control the wavelength separating device at the remote apparatus to be added to separate a different wavelength from the given plurality of wavelengths until it is determined that no signal corresponding to the separated wavelength is being received; and

once a separated wavelength that is not received at said remote apparatus to be added is determined in said controlling step;

transmitting a signal having said separated wavelength from said remote apparatus to be added to said station apparatus, and

updating said one or more wavelengths of the given plurality of wavelengths transmitted from said station apparatus to the plurality of remote apparatuses to include the separated wavelength.

21-36. (Cancelled)